

ISPLEN® PP 086 Y1E

Polypropylene Homopolymer
REPSOL

PROSPECTOR®

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Technical Data

Product Description

ISPLEN® PP 086 Y1E is a high melt flow rate polypropylene homopolymer with narrow molecular weight distribution which provides optimum processing in fibre lines of high speed (BCF/CF and spunbond). It includes a specific formulation resistant to "gas fading" coloration, suitable for protecting the polymer during extrusion process and final use.

TYPICAL APPLICATIONS

- Indicated for the extrusion of staple fibre and BCF/CF in lines of high speed.
- Specially recommended for technical and hygienic nonwovens in spunbond lines.

Recommended melt temperature range from 190 to 250°C. Processing conditions should be optimised for each production line.

General

Material Status	• Commercial: Active
Literature ¹	• Processing - Injection Molding (English) • Technical Datasheet (English)
Search for UL Yellow Card	• REPSOL
Availability	• Europe • North America
Additive	• Anti-gas fading
Features	• Food Contact Acceptable • High Flow • Gas-fading Resistant • Narrow Molecular Weight Distribution
Uses	• BCF Multifilaments • Nonwovens • Staple Fibers • Fibers • Spun Bonding
Agency Ratings	• EU Food Contact, Unspecified Rating
Processing Method	• Fiber (Spinning) Extrusion

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.905 g/cm ³	0.905 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25 g/10 min	25 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield)	5220 psi	36.0 MPa	ISO 527-2
Flexural Modulus	232000 psi	1600 MPa	ISO 178
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	194 °F	90.0 °C	ISO 75-2/B
Vicat Softening Temperature	307 °F	153 °C	ISO 306/A
Extrusion	Nominal Value (English)	Nominal Value (SI)	
Melt Temperature	374 to 482 °F	190 to 250 °C	

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

